VITEK

VTM-LCD155P

15” Professional LCD Monitor with VGA and Looping BNC

- 15” LCD Display Panel
- VGA and Looping BNC Composite Video Inputs & Stereo Audio Input
- Resolution up to 1024 x 768 (XGA)
- Contrast Ratio of 800:1
- <8ms Response time
- 170° Horizontal Viewing Angle
- Front Panel Controls
- VESA 75mm Standard Mounting
- 50,000 Hour Panel Life

1 Introduction and Package Contents

Introduction

Congratulations on VITEK LCD Monitor purchase. You can expect only the sharpest and most brilliant color images from this monitor. Featuring OSD controls and built in speakers, you will find this monitor both easy to use and a pleasure to view.

Package Contents

- LCD Monitor – VTM-LCD155P
- 12Volt DC Power Adapter/Power cord
- D-Sub 15-pin VGA connector Cable
- User's Guide

Hardware Installation

The following sections in this guide give clear, step-by-step descriptions of the installation process and explain how to use the monitor for optimum results.

Please pay attention to the Regulations and Warnings Section of this user's manual before setting up the display monitor. Failure to do so may inadvertently result in personal injuries or product damage.

Specifications

	VTM-LCD155P
Screen Size	15"
Display Type	LCD
Aspect Ratio	4:3
Resolution	XGA (1024x768)
Response Time	<8ms
Contrast Ratio	800:1
Display Color	16.7 Million
Brightness	250cd/m²
Pixel Type	Active Matrix TFT
Pixel Pitch	0.294(H) x 0.294(V)
Viewing Angle (H/V)	170° / 160°
Video System	NTSC/PAL
Video In/Out	1 BNC Input / 1 BNC Output
VGA In	1 (15Pin D-Sub)
Audio Input	Stereo RCA & 1/8" PC
Built In speaker	Yes (1.5W x 2)
3D Comb Filter	YES
3D De-Interlace	YES
Noise Reduction	YES
Multi-Language	English, Spanish, German, French, Italian, Russia, Turkish, Japanese, Polish
Stand Tilt	-5°~15°
Vesa Mount Size	75mm x 75mm
Power Adapter	12VDC (AC100/240 [50/60])
Power Consumption	30W Max
Certifications	UL, FCC-DOC, CE, ROHS
Operating Temperature	32° to 104° F (0° to 40° C)
Operating Humidity	10% to 90% relative, non-condensing
Dimensions (w/Stand)	13.82” x 13.43” x 6.5” (351 x 341 x 165mm)

VGA Timing

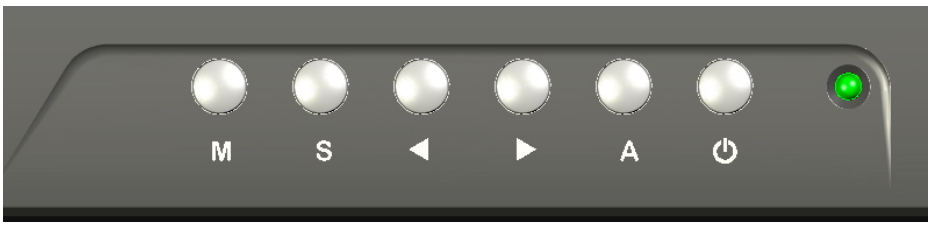
Item	Resolution	H Freq.(kHz)	V Freq.(Hz)
1	640x400@70	31.460	70.080
2	640x480@60	31.469	59.940
3	640x480@72	37.861	72.809
4	640x480@75	37.500	75.000
5	720x400@70	31.460	70.080
6	800x600@56	35.156	56.250
7	800x600@60	37.879	60.317
8	800x600@72	48.077	72.188
9	800x600@75	46.875	75.000
10	1024x768@60	48.363	60.004
11	1024x768@70	56.476	70.069
12	1024x768@75	60.023	75.029

Remark:
The timings with presetting are recommended.
Users have to adjust the timing manually, if it is not included in the presetting list

2 Monitor and OSD Control

The VITEK VTM-LCD155P LCD color monitor has a simple layout for controlling the monitor and OSD (On Screen Display) functions. The table below summarizes the control keys and their related functions.

Keys	Function Description
⏻	Toggle the display between standby mode and on. (Press "Power" and waiting 6 sec., monitor will be activated for display)
A	Automatically adjusts H-Position, V-Position, Pixel Clock and Phase for an optimal image in PC mode only.
▶	Switch function. Increase the value of the chose item.
◀	Switch function. Decrease the value of the chose item.
S	Select mode "PC" or "AV1.
M	Enter the main menu of the on-screen display (OSD).



LCD Status Display

The following table describes the various power states of the LCD monitor as represented by varying LCD colors.

Power State	LCD Color
On	Green
Standby	Red
No power	Blank

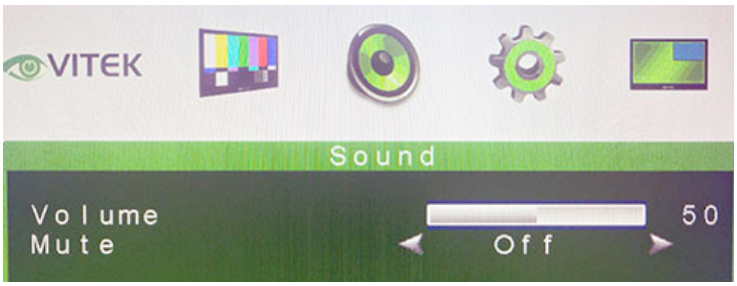
3 OSD Control Function List

OSD Menu

Picture Mode

1. Picture Mode	Press -/◀ OR +/▶ to select the picture mode "User, Standard, Movie, Vivid "
2. Contrast	This is used to set the brightness of the screen. Press -/◀ OR +/▶ to adjust the parameter.
3. Brightness	This is used to adjust the image contrast. Press -/◀ OR +/▶ to adjust the parameter.
4. Tint	This is used to adjust the image Tint. Press -/◀ OR +/▶ to adjust the parameter.
5. Saturation	This is used to adjust the image saturation. Press -/◀ OR +/▶ to adjust the parameter.
6. Sharpness	Adjust the sharpness. It makes the image become soft. Press -/◀ OR +/▶ to adjust the parameter.
7. Color Temp.	Press -/◀ OR +/▶ to adjust the color tones. " Cool , Warm , Normal "
Note: VGA Mode: Contrast, Brightness, Color Temp., Auto Adjust.	

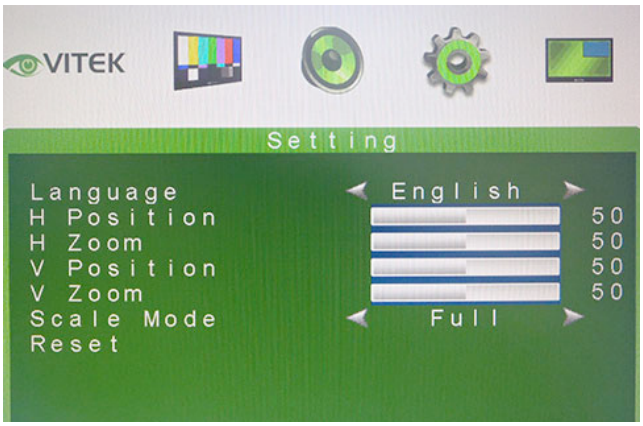
Sound Mode



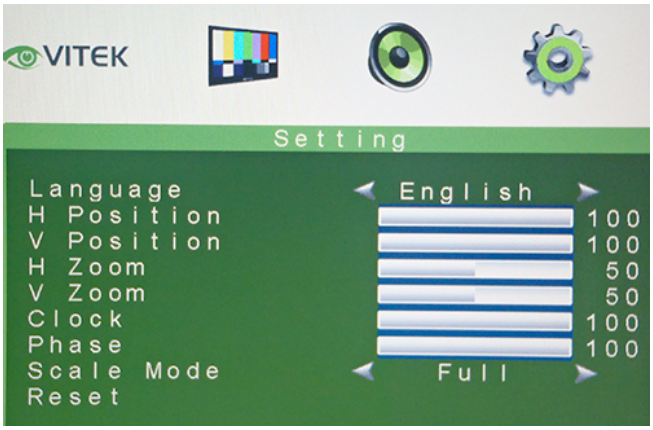
1. Volume	Press -/◀ OR +/▶ to adjust volume level.
2. Mute	Press -/◀ OR +/▶ to select sound " Off, On ".

Setting Mode

AV Mode



VGA Mode



1. Language	Press -/◀ OR +/▶ to select language.
2. H. Position	Move the display picture left or right. Press -/◀ OR +/▶ to adjust the parameter.
3. H Zoom	Adjust the H-size of the display picture Press -/◀ OR +/▶ to adjust the parameter.
4. V Position	Move the display picture up or down. Press -/◀ OR +/▶ to adjust the parameter.
5. V Zoom	Adjust the V-size of the display picture Press -/◀ OR +/▶ to adjust the parameter.
6. Clock	Press -/◀ OR +/▶ to adjust the parameter.
7. Phase	Press -/◀ OR +/▶ to adjust the parameter.
8. Scale Mode	Adjust the V-size of the display picture Press -/◀ OR +/▶ to adjust " Full (4:3) or Wide (16:9).
9. Reset	Recall Default value.
Note: " Clock" and "Phase " setting only in VGA Mode	

4 Caring for Your LCD Monitor

Caring for your LCD Monitor

Your VITEK LCD color monitor is a sensitive piece of electronic equipment. Proper care can prevent accidentally damaging the LCD panel or the monitor itself. By following these guidelines you can ensure many years of trouble free use.

1. The LCD monitor's plastic casing and LCD glass panel can be cleaned with a soft, lint-free cloth. ***Never use scrub pads or other cleaning materials with abrasive surfaces to clean your LCD monitor!***
    a. A slightly damp cloth or newspaper may be used to clean the glass plate of fingerprints or smudges.
    b. For the plastic case, a mild detergent may be used to clean the surface. However, you should ensure not to use too much detergent or water as this could leak into the interior of the casing.
2. Do NOT use cleaning fluids based on alcohol, methylated spirit, or ammonia. The glass plate has a hard surface coating to prevent scratches. However, the use of strong chemical cleaning agents may damage this coating. Use only a mild soap or detergent and water or specially formulated cleaners made for cleaning glass panels.
3. Avoid direct contact with water or other liquids. Never use the LCD monitor in or around areas where water may pose a potential hazard to normal operation.
4. Only use the LCD monitor indoors, and avoid monitor contact with oil, vapor, steam, moisture and dust. The LCD monitor should be used in a clean and low humidity environment.
5. Keep the LCD monitor away from heaters or other heat sources such as lighting equipment or direct sunlight.
6. Do not touch the screen of your LCD monitor with any sharp object such as your fingernail or a pencil etc.

WARNING: Any unauthorized modification to this equipment could result in the revocation of the authorization to operate the equipment and void the product warranty.

5 Frequently Asked Questions

Power button does not respond

- Check the power cord to ensure that it is securely plugged into the monitor base and also into the electrical outlet.
- Ensure there is electrical power coming from the AC outlet. Use another device to check for power.
- Unplug the power cord of the monitor from the AC outlet, wait a few minutes, then plug the power cord into the AC outlet again. This will reset the monitor and power supply.

No image on the screen

- Ensure that the signal cable is properly connected to the device generating the video signal such as a DVR or Computer.
- If using VGA, check the DB-15 signal cable connector on both ends for bent or pushed-in pins.
- If your signal generating device is a computer, the display card should be properly seated in its card slot.
- Ensure that the computer or image signal generating device's power switch is ON.
- Ensure that the monitor's power switch is ON.
- Unplug the power cord of the monitor from the AC outlet, wait a few minutes, then plug the power cord into the AC outlet again. This will reset the monitor and power supply.

Power LCD is RED (with no image on the screen)

- Check the signal cable to ensure that it is properly attached to the image generating device or graphics display card.
- If using VGA, Check the DB-15 signal cable on both ends for bent or pushed-in pins.
- Make sure the computer (or other device) is not in a power-saving mode (move the mouse or press a key on the keyboard).

No sound coming from the audio speakers

- The audio cable should be connected to the lineout on the audio card and the line-in on the monitor. Ensure that the audio cable is properly connected.
- Inspect the audio cable for any apparent damage. Double check by switching to another audio cable to see if the audio works.

6 Regulations and Maintenance

FCC compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference ina residential installation. This equipment generation, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may causeharmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Precautions

∗ Read all of these instructions and save them for later use.
∗ Follow all warnings and instructions on the product.
∗ Product

- Do not cover or block the vent holes in the case.
- Do not insert sharp objects or spill liquid into the LCD monitor through cabinet slots. They may cause accident fire, electric shock or failure.
- Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.
- Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage potentials or other risks.
- Do not touch the screen directly with your fingers. You may damage the screen, and oil from your skin is difficult to remove.
- Do not apply pressure to the screen. The LCD is very delicate and may crack.

∗ Power

- Use the type of power indicated on the rear panel label.

∗ Plugs

- Do not remove any of the prongs of the monitor's three-pronged power plug.
- Disconnect the power plug from the AC outlet under following conditions:
  - ◎ If you will not use it for an indefinite period time.
  - ◎ When the power cord or plug is damaged or frayed.
  - ◎ If the product does not operate normally when the operation instructions are followed. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  - ◎ If the product has been dropped or the cabinet has been damaged.
  - ◎ If the product exhibits a distinct change in performance. May indicate a need for service.

∗ Power and extension cords

- Do not allow anything to rest on the power cord.
- Do not locate this product where persons will walk on the cord.
- Use the proper power cord with correct attachment plug type. If the power source is 120 V AC, use a power cord that has UL and C-UL approvals. If the power source is a 240 V AC supply, use the tandem (T blade) type attachment plug with ground conductor power cord that meets the respective European country's safety regulations, such as VDE for Germany.
- Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 10 amperes.
- Ensure that the total ampere rating of all units plugged into the extension cord is not over the cord's rating.
- If the power supply cord, which came with your monitor, is to be connected to the PC instead of the wall outlet, this equipment is to be used with UL/TUV approved computers with receptacle rated 100~240V AC, 50/60Hz, 2.0A(minimum).

∗ Environment

- Place the monitor on a flat, level surface.
- Place the monitor in a well-ventilated area.
- Keep the monitor away from:
  Extremely hot, cold or humid places, direct sunlight, dusty surroundings and/or equipment that may generate strong magnetic fields.

VITEK LIMITED PRODUCT WARRANTY

VITEK products carry a three (3) year limited warranty. Digital recording and storage products are also warranted for 3 years except for the hard drives which carry their own independent factory warranty from the hard drive manufacturer. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is non-transferable and extends only to the original buyer or end user customer of a Vitek Authorized Reseller.

This warranty shall not apply to repairs or replacements necessitated by any cause beyond the control of VITEK, including but not limited to, acts of nature, improper installation, excess moisture, misuse, lack of proper maintenance, accident, voltage fluctuations, or any unauthorized tampering, repairs or modifications. This warranty becomes VOID in the event of alteration, defacement, or removal of serial numbers.

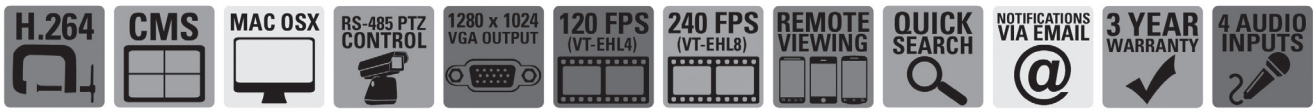
Within the first 6 months of purchase, VITEK will replace or credit any defective product at the request of the customer (subject to availability) with a new product that equals or exceeds the performance of the original product purchased.

Within the first 6 months of purchase, at its sole discretion, VITEK may issue an advance replacement for a defective product; however, all related costs including, but not limited to shipping and/or delivery charges will be the responsibility of the customer. If upon return inspection a product is determined to be in good working order or shows evidence of misuse, the customer will be responsible for full payment of the original product purchased as well as the replacement product.

Beyond the first 6 month period for the remainder of the warranty, VITEK'S responsibility shall be limited to repairing the defective product, including all necessary parts and related labor costs. At its sole discretion, VITEK may choose to either exchange a defective product or issue a merchandise credit towards future product purchases. Any replacement parts furnished in connection with this warranty shall be warranted for a period not to exceed the remaining balance of the original equipment warranty.

A Return Authorization number or "RA" number must be obtained prior to the return of any item for repair, replacement, or credit. VITEK requires that this "RA" number be clearly printed on the outside of the shipping carton to avoid refusal of said shipment. The Return Authorization number expires after 30 days. Products returned after the 30 day period will be subject to refusal. Shipping charges, if any, must be prepaid. A copy of the bill of sale (or invoice of purchase), together with a complete written explanation of the problem must accompany all returns.

Vitek makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a Vitek Authorized Reseller.



VT-EHL

4 & 8 Channel H.264 Digital Video Recorders

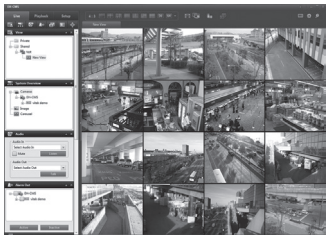
Simplicity and reliability is the basis upon which the EH L Digital Video Recorder was conceived. With almost every powerful feature of its predecessor the "EH", the EHL offers an economical option for providing the most advanced recording solution available. As part of the EH family, the EHL is completely compatible with all VITEK EH Platform application software.

FEATURES:

- 4 or 8 Video Inputs with 1 Main, 1 Spot Monitor Output and 1 VGA output.
- Real Time Recording with Up to 120 IPS at HD1 Recording / Live Display (VT-EHL4) / 240 IPS at CIF (VT-EHL8)
- H.264 Compression
- Supports Static & Dynamic IP Addresses
- 4 Alarm & Audio Inputs / 1 Output
- 500GB to 2TB Internal Storage Options
- Remote Viewing over the Internet, LAN, Explorer, Safari, Firefox, Opera and Chrome
- Applications for iPhone, iPad, iTouch and Droid Devices
- "Quick Search" Function for automatic review
- Mac OSX Client & CMS Central Management Software Included
- Automatic sending of Health & Event notifications via email
- Control locally via Front Panel, USB Mouse or with the Included IR Remote control
- PTZ Control over RS-485

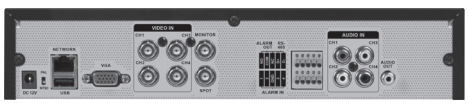
	VT-EHL4	VT-EHL8
Video Input	4 Channels	8 Channels
IPS (Display / Recording)	120 / 120 (HD1)	240 / 240 (CIF)
Video Output	VGA - 1 SXGA (1280 X1024)	
BNC Output	Monitor: 1 Composite(BNC) / Spot: 1 Composite(BNC)	
Audio In/Out	4 Line In (RCA) / 1 Line Out (RCA), CODEC : G.711 (64Kbps)	
Storage	Up to 1 Internal HDD (SATA)	
Archive	USB Device & Network	
USB Port	1 Front +1 Rear	
System Control	Front Panel, USB Mouse, Included IR Remote Control	
Network	TCP/IP, HTTP, DHCP (DDNS)	
RJ-45 Ethernet Port	10M/100M	
Playback Rate	120 fps @ 704x240 60 fps @ 704x480	240 fps @ 352x240 120 fps @ 704x240 60 fps @ 704x480
PTZ	1 - RS-485 - Supports most of PTZ protocols with up to 255 Presets	
Point of Sale (POS)	N/A	
Motion Area Setting	Adjustable GRID(16X16), 10 Steps Sensitivity Level	
Recording Resolution Setting	By each camera for different resolution setting(CIF/2CIF/D1)	
Recording Quality Control	4 Levels (Low/Standard/High/Highest)	
E-mail notification	E-mails to specific users to notify events	
System Configuration	Full setup configuration over network	
Bandwidth limit	YES: Adjustable by User	
Two-Way Audio	YES	
Case Form Factor	1.3U	

Remote Viewing Apps for iPhone, iPad & Android



Included VT-EH CMS Software allows remote viewing and control of multiple VT-EH Series DVR's even when located at multiple locations!

Remote Viewing from anywhere using Internet Explorer



VT-EHL4 Rear Connections

VT-EHL8 Rear Connections

VALUE UNEQUALLED...

THE MOST ADVANCED FEATURES AND FUNCTIONS AT A PRICE POINT THAT WILL AMAZE YOU!

A 620TVL Multi Purpose Wide Dynamic Color Dome Camera with a 3 Year Warranty at a price that will shock even the savviest consumer.

The New VITEK Hercules Digital Processor provides features and performance found only in cameras more than twice the cost. Built in Wide Dynamic Range for challenging lighting demands, 3D Digital Noise Reduction, Digital Slow Shutter, Motion Detection and Privacy Function are just a start.

This Camera Lineup comes equipped with OSD, Secondary Video Output and 3-Axis Positioning and is available in fixed, 2.8-12mm Varifocal, Infrared and Vandal/Weather Resistant versions making this camera an Ultra Versatile choice.

HIGH RES 620 TV LINES | AUTOMATIC DAY/NIGHT | 3D DNR NOISE REDUCTION | HLM HIGHLIGHT MASKING | ONSCREEN DISPLAY OSD | DUAL VOLTAGE +⚡− | PRIVACY MASKING | MOTION DETECTION | WDR WIDE DYNAMIC RANGE | HERCULES DSP | DSS | WEATHER RESISTANCE IP-68 | 35 IR LED ILLUMINATION

DAY/NIGHT

During The Day — At Night

VITEK WDR

Alpha Domes — Conventional Cameras

INFRARED

IR LEDs Off — Total Darkness w/IR LEDs

alpha series By VITEK

FEATURES:

- 620TV Lines of Resolution
- 1/3" Sony Super HAD II CCD
- Hercules DSP Engine
- Night Watch DSS Low Light Color Technology
- Fixed Lens, Varifocal, and IR Corrected Varifocal Lens Options
- Advanced OSD Functions: WDR, 3D DNR, DIS, Sens-up, Motion Detection, and Privacy Masking
- Secondary Video Output with Cable Included
- 3-Axis Mount for Optimum Viewing Angle
- 35 IR LEDS with 120' Range (Optional)
- IP68 Waterproof Rated (Outdoor Versions)
- Wall & Ceiling Mounts Available (Outdoor Versions)
- 12VDC/24VAC Dual Voltage / 12VDC (VTD-A4F/I) Operation
- Available in Ivory or Black

Versatile Mounting Options For Indoor & Vandal Resistant Alpha Domes!

VT-AP/WMT
Indoor ALPHA Series Wall Mount

VT-AV/WMT
Outdoor Heavy Duty ALPHA Series Wall Mount

VT-AV/CMT
Outdoor Heavy Duty ALPHA Series Ceiling Mount

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